METHODS FOR RENAMING STACK REFERENCES

IN A COMPUTER PROCESSING SYSTEM

ABSTRACT OF THE INVENTION

5   According to one aspect of the invention, there is

provided a method for renaming memory references to stack

locations in a computer processing system. The method

includes the steps of detecting stack references that use

architecturally defined stack access methods, and replacing

10   the stack references with references to processor-internal

registers. The architecturally defined stack access methods

include memory accesses that use one of a stack pointer, a

frame pointer, and an argument pointer. Moreover, the

architecturally defined stack access methods include push,

15   pop, and other stack manipulation operations.